

## ASSIGNMENT 3

Textbook Assignment: "Clamps," "Jacks," "Hammers, Mallets, and Mauls," "Screwdrivers," "Manual Drills," "Screw and Tap Extractors," "Wrenches," "Chisels," and "Punches," chapters 19 through 27, pages 19-1 through 27-6.

---

- 3-1. Which of the following tools are used to hold work that cannot be held in a vise, or that has to be held for extended periods of time?
1. C-clamps
  2. Chisels
  3. Calipers
  4. Reamers
- 3-2. In reference to hand screw clamps, which of the following statements is true?
1. A hand screw clamp usually is made up of three jaws
  2. A hand screw clamp should be tightened with a wrench or bar
  3. A hand screw clamp is used for holding wood while gluing
  4. A hand screw clamp is available in one size only
- 3-3. Jacks can be used for which of the following purposes?
1. For raising and lowering heavy loads
  2. For spreading and clamping operations
  3. For pushing and pulling operations
  4. All of the above
- 3-4. Which of the following tools is used for pulling parts together or pushing them apart?
1. A reamer
  2. A micrometer
  3. An outrigger jack
  4. A scribe
- 3-5. Which of the following types of hammers is used for driving and pulling nails?
1. A carpenter's hammer
  2. A ball peen hammer
  3. A bumping body hammer
  4. A cross peen hammer
- 3-6. Hammers usually come in which of the following sizes?
1. 1, 2, 4, and 6 ounce sizes
  2. 2, 3, 6, and 9 ounce sizes
  3. 6, 9, 12, and 15 ounce sizes
  4. 7, 13, 16, and 20 ounce sizes
- 3-7. Which of the following types of hammers is used for forming soft metal, peening rivet heads, and striking metal in out-of-the-way places?
1. A carpenter's hammer
  2. A ball peen hammer
  3. A claw hammer
  4. A club hammer
- 3-8. Which of the following tools would normally be used for breaking stones and concrete?
1. A ball peen hammer
  2. A bumping hammer
  3. A blacksmith's hammer
  4. A carpenter's mallet
- 3-9. An inserted soft-faced hammer that is extra hard will be what color?
1. Yellow
  2. Green
  3. Black
  4. Red

3-10. Which of the following tools is used to form and shape sheet metal?

1. A carpenter's hammer
2. A tinner's mallet
3. A jeweler's hammer
4. A mason's hammer

3-11. A trimmer's hammer has a round flat face on one end of the head. What type of face is on the other end of the head?

1. A square flat face
2. A round pointed face
3. A tapered chisel face
4. A curved claw face

3-12. What are the four basic types of dead blow hammers currently in use?

1. Standard head, slimline head, sledge, and ball peen
2. Round head, streamline neck, curved back, and rivet face
3. Huge, large, medium, and small
4. Ball peen, curved back, rivet face, and round head

3-13. Which of the following types of mallets is made by tightly wrapping and staking a sheet of leather?

1. A carpenter's mallet
2. A rubber mallet
3. A tinner's mallet
4. A rawhide mallet

3-14. Cross-point screwdrivers normally come in which of the following sizes?

1. 2 to 4 inch sizes
2. 3 to 8 inch sizes
3. 4 to 12 inch sizes
4. 9 to 16 inch sizes

3-15. Which of the following types of screwdrivers should you use to drive or remove screws that cannot be lined up straight with common screwdrivers, or are located in tight corners?

1. Cross-point
2. Cross-tip
3. Ratchet
4. Offset

3-16. Which of the following tools is used to make a pilot hole in wood for wood screws?

1. A cross-point screwdriver
2. A flexible screwdriver
3. A screw starter or gimlet
4. A two-piece collet die

3-17. Which of the following types of drills is made up of a head, crank, crank handle, ratchet mechanism, and chuck?

1. A hand drill
2. A breast drill
3. A brace drill
4. An electric drill

3-18. Which of the following tools are used to remove broken screws without damaging the threads or surrounding material?

1. Screw extractors
2. Plumb bobs
3. Chisels
4. Scribers

3-19. Which of the following types of wrenches has a long smooth shank providing the user with a better gripping surface and is used to reach behind or below blind surfaces?

1. A box wrench
2. A plug wrench
3. A torque wrench
4. An engineer's single open-end wrench

3-20. Box wrenches surround the nuts, bolt heads, or studs on all sides. They are available with which of the following point openings?

1. 6-point openings
2. 12-point openings
3. Both 1 and 2 above
4. 29-point openings

- 3-21. In reference to ignition wrenches, which of the following statements is true?
1. Ignition wrenches are usually very large in size
  2. Ignition wrenches usually have the same size jaw opening on both ends
  3. Ignition wrenches are usually used to remove lug nuts from wheels of vehicles
  4. Ignition wrenches are usually offset 10 degrees on each end
- 3-22. Which of the following types of wrenches combines the open-end jaw with a long tapered shank providing a wrench/alignment punch combination?
1. A construction wrench
  2. An ignition wrench
  3. An open end wrench
  4. A box wrench
- 3-23. Wrenches are usually made from which of the following materials?
1. Plastic
  2. Copper
  3. Tin
  4. Steel alloy
- 3-24. Which of the following types of wrenches is used in the building trades and on heavy objects that require alignment before fastening?
1. An open-end wrench
  2. A box wrench
  3. A combination wrench
  4. A construction wrench
- 3-25. In reference to box wrenches, which of the following statements is/are true?
1. Box wrenches are offset from the shank by 15 degrees
  2. The 12-point opening on a box wrench may be used on both square and hexagonal bolt heads
  3. The length of a box wrench depends upon the size of their opening
  4. All of the above
- 3-26. Which of the following types of wrenches does NOT have to be lifted up and repositioned each time the shank has reached its maximum travel between two obstructions?
1. An engineer's single open-end wrench
  2. A ratchet-box wrench
  3. An ignition wrench
  4. A combination wrench
- 3-27. In reference to socket wrenches, which of the following statements is/are true?
1. A socket wrench consists of a square metal sleeve with a round opening in one end for insertion of a handle
  2. The length of a socket determines its size
  3. The drive end of a socket may vary in size from 1/4 to 1 inch
  4. All of the above
- 3-28. Which of the following tools is used when it is necessary to reach around an object?
1. A universal joint socket
  2. A plumb bob
  3. A micrometer
  4. A bevel protractor
- 3-29. Which of the following tools is used for increased leverage or for working around other objects?
1. A ratcheting adapter
  2. A sliding T-Bar handle
  3. A crowfoot wrench
  4. A wedge-type stud remover
- 3-30. Which of the following tools is used to change the drive size between a socket and a handle?
1. A ratcheting adapter
  2. A socket wrench adapter
  3. A sliding T-Bar
  4. A hinged handle

3-31. Which of the following tools is used to convert a non-ratcheting socket wrench handle into a ratchet drive?

1. A ratcheting adapter
2. A socket wrench adapter
3. A socket wrench extension
4. A sliding T-Bar handle

3-32. Which of the following tools is usually used to remove or install vehicle wheel stud nuts?

1. A sliding T-Bar handle
2. A combination wrench
3. A four-way socket wrench
4. An open-end wrench

3-33. In reference to stud removers, which of the following statements is true?

1. Some stud removers can be adjusted to remove different size studs
2. Most stud removers are electrically driven
3. There is only one type of stud remover
4. Stud removers are usually used to remove tiny screws from sensitive instruments

3-34. Hex key wrenches are usually what shape?

1. T-shaped
2. Circular-shaped
3. Square-shaped
4. L-shaped

3-35. Plug wrenches usually come in which of the following types?

1. Bar-type
2. Socket-type
3. Multiple plug wrench
4. All of the above

3-36. Which of the following tools is used to remove or install drain plugs?

1. A crowfoot wrench
2. A T-Bar handle
3. A box wrench
4. A plug wrench

3-37. Which of the following tools should be used to remove nuts and bolts that have been rounded off by someone using the wrong size wrench?

1. A box wrench
2. Clamp pliers
3. A torque wrench
4. Wire cutters

3-38. Which of the following tools should NOT be used to install new nuts or bolts?

1. A combination wrench
2. A box wrench
3. Clamp pliers
4. A socket wrench

3-39. Which of the following tools is designed to measure the specific degree of tightness of nuts or bolts?

1. A torque wrench
2. An open end wrench
3. A pipe wrench
4. A reamer

3-40. The stillson wrench, the strap wrench, and the chain wrench come under what general category of wrenches?

1. Combination wrench
2. Torque wrench
3. Pipe wrench
4. Box wrench

3-41. Which of the following wrenches are similar?

1. Torque and pipe wrenches
2. Monkey and auto wrenches
3. Strap and spanner wrenches
4. crowfoot and plug wrenches

3-42. A power torque wrench is operated by the use of what type of power?

1. Hydraulic
2. Electrical
3. Magnetic
4. Manual

- 3-43. Which of the following types of wrenches is used to tighten nuts and bolts requiring 200 or more foot pounds of torque?
1. A spanner wrench
  2. A plug wrench
  3. A box wrench
  4. A power torque wrench
- 3-44. What are the two basic types of spanner wrenches?
1. The hook-type and the pin-type
  2. The round-face type and the square-face type
  3. The adjustable-type and the fixed-type
  4. The flexible-type and the rigid-type
- 3-45. The straps on strap pipe wrenches are usually made from which of the following materials?
1. Rubber
  2. Canvas
  3. Leather
  4. Both 2 and 3 above
- 3-46. Which of the following wrenches has one fixed jaw and one adjustable jaw?
1. An adjustable open-end wrench
  2. A multiple plug wrench
  3. A combination wrench
  4. A box wrench
- 3-47. A wedge-type stud removers is normally made of a socket housing and a total of how many wedges
1. Five
  2. Two
  3. Three
  4. Four
- 3-48. Socket wrench extensions usually range from 2 inches to what maximum length?
1. 10 inches
  2. 13 inches
  3. 17 inches
  4. 36 inches
- 3-49. Which of the following tools is a precision instrument?
1. A strap wrench
  2. A torque wrench
  3. A bolt cutter
  4. A box wrench
- 3-50. An S-shaped open end wrench is normally offset what number of degrees?
1. 22 1/2 degrees
  2. 15 1/4 degrees
  3. 12 2/3 degrees
  4. 10 3/4 degrees
- 3-51. Which of the following tools should you use to cut holes in flat stock and to cut V-groves?
1. A center punch
  2. A staybolt tap
  3. A diamond point chisel
  4. A thread cutting tool
- 3-52. Which of the following types of chisels has a beveled point on one edge, a flat face on the other end, is 10-1/2 inches long, and weighs 5-1/2 pounds?
1. A rivet buster chisel
  2. A machinist's chisel
  3. A track chisel
  4. A woodworker's chisel
- 3-53. In reference to a woodworker's chisel, which of the following statements is true?
1. Rough cuts should be made with the bevel side up
  2. Smooth finishing cuts should be made with the bevel side down
  3. Cuts should always be made away from the person doing the cutting
  4. Both hands of the person doing the cutting should be in front of the cutting edge at all times

3-54. Woodworker's chisels come in which of the following types?

1. Rivet-buster type
2. Socket-type
3. Tang-type
4. Both 2 and 3 above

3-55. Which of the following tools is used to mark centers on metal or wood without the use of a hammer?

1. A catapunch
2. A micrometer
3. A gage block
4. A gimlet

3-56. What are the two general types of center punches?

1. Hand-held and automatic
2. Wedge-shape and circular
3. Spindle and bevel
4. Iron and copper

3-57. Which of the following tools is used to mark soft metal?

1. A tinmen's hollow punch
2. A prick punch
3. A lever punch
4. A fillet

3-58. The tinmen's hollow punch has a solid metal shank terminating in a sharpened, hollowed end. This type of punch is used for which of the following purposes?

1. To remove bolts
2. To mark rivets
3. To punch holes through thin sheet metal
4. To align sections of tin

3-59. Which of the following tools is used to form the flange on grommets which are installed along the edges of flags, sails, mail bags, and similar items?

1. A catapunch
2. A grommet-inserting punch
3. A mason's hammer
4. A scribber

3-60. Which of the following tools should you use to punch small round holes near the edges of metal or leather material?

1. A lever punch
2. A catapunch
3. A prick punch
4. A reamer